With the Compliments of the Medical Officer of Health.



SOUTHAMPTON

URBAN SANITARY AUTHORITY



THE 27th

ANNUAL REPORT

ON THE

VITAL STATISTICS AND SANITARY
CONDITION

OF THE

County Borough of Southampton,

FOR THE YEAR 1900,

BY

A. WELLESLEY HARRIS,

M.R.C.S. Eng., L.S.A., D.P.H., &c.,

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Fellow of the British Institute of Public Health;
Fellow of the Epidemiological Society; Fellow of the Sanitary Institute, &c.

SOUTHAMPTON:

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MDCCCCI.



By the order of the Local Government Board, dated March 23rd, 1891, Article 18, Section 14, it is prescribed that the Medical Officer of Health shall "prepare an Annual "Report to be made to the end of December in each year, "comprising a summary of the action taken during the "year for preventing the spread of disease, and an account "of the sanitary state of his district generally at the end of "the year. The report shall also contain an account of "the enquiries which he has made as to conditions "injurious to health existing in his district, and of the "proceedings in which he has taken part or advised under "the Public Health Act, 1875, so far as such proceedings "relate to those conditions; and also an account of the "supervision exercised by him, or on his advice, for "sanitary purposes over places and houses that Sanitary "Authorities have power to regulate, with the nature and "results of any proceedings which may have been so "required and taken in respect of the same during the "year. It shall also record the action taken by him, or "on his advice, during the year in regard to offensive "trades and to factories and workshops. The report shall "also contain Tabular Statements (on forms to be "supplied by the Local Government Board, or to the like "effect) of the sickness and mortality within the district, "classified according to diseases, ages, and localities."

Municipal Offices, Southampton, July, 1901.

To the Mayor, Aldermen, and Councillors of the County Borough of Southampton.

GENTLEMEN,

I have the honour to present to you the Twenty-Seventh Annual Report of the Medical Officer of Health for the year ending December 31st, 1900, in accordance with the requirements of the Local Government Board.

The Death Rate for the year amounted to 17.6 per thousand for the entire Borough, compared with 19.1 per thousand in the previous year.

This lowered Death Rate is highly satisfactory, and is due in a great measure to a reduced incidence of Zymotic diseases, and consequently a lowered Zymotic Death Rate compared with the year 1899.

The absence of prolonged great heat in the Autumn of 1900 must be considered an element in the reduction of the Zymotic Diseases so prevalent in 1899. The provision of Hospital accommodation for Infectious Diseases supplied by the new Isolation Hospital, has, also in my opinion, contributed largely in reducing the extension of Infectious disease and its consequent mortality.

With regard to the drainage of the lower portions of the town referred to in my last Annual and other Reports, your Council decided to obtain expert opinion, and Mr. W. C. Tyndale, having been provided with all the Reports on the subject, made a careful investigation, and submitted an opinion to you on August 3rd, 1900. His report endorsed the opinion which I had previously laid before you.

I am, Gentlemen,
Yours faithfully,
A. WELLESLEY HARRIS,
Medical Officer of Health.

STATISTICAL.

POPULATION.

The population of the County Borough of Southampton estimated to the middle of 1900, amounts to 103,500 persons, viz:—

ESTIMATED POPULATION, 1900.

Town Proper	•••	•••	•••	61,250
Portswood and Bitterne	Park			17,500
Shirley, Freemantle, and	Millbrook	•••	•••	24,750
				103,500

These totals have been revised in accordance with the return received from the Registrar General of the result of the Census taken on April 1st, 1901, as follows:—

CENSUS POPULATION April 1st, 1901. (Subject to Revision).

Town Proper	 	61,409
Portswood and Bitterne Park	 	17,957
Shirley, Freemantle, and Millbrook	 	25,545
		104,911

The result of the Census shows that the population of the Borough has been slightly overestimated for the past five years. This error arose almost entirely in calculating the population of the Town Proper.

The Census figures for 1901 show that the population per house in the Town is less than that recorded in 1891, the reverse of what was anticipated.

The following table shows the difference between the estimated population and the actual census figures in April, 1901.

	Estimated.	Actual.		•
Town Proper	64,436	61,409	overestimated	3,027
Portswood and } Bitterne Park }		17,957	ditto	253
Shirley, Free- mantle, and Millbrook	25,067	25,545	underestimated	4 7 8
	107,713	104,911	difference	2,802

The per centage of increase occurring in the decennial period varies considerably in the various districts, being lowest in the Town and highest in Portswood. This variation is due to their being no available land for building purposes in the Town districts, and the development of the outlying portions of the Borough.

INCREASE OF POPULATION 1891-1901.

	Increase, 1891-1901.		erease Per Cent. n Population, 1891.
Whole Borough	22,785		27.7
Town Proper	5,946		10.2
Portswood and Bitterne Park	7,645	•••	74'1
Shirley, Freemantle, and Millbrook	9,194	•••	56.2

The difference between the actual and estimated population has necessitated a revision of the Birth and Death Rates for the past ten years, and shows the desirability of a quinquennial census.

BIRTHS.

The total number of Births registered within the Borough during the year numbered 2,929—1,477 of which were males and 1,452 females—giving a Birth Rate for the entire Borough of 28.3, compared with 30.7 the average for the past 20 years in Southampton, and 31.0 the average for England and Wales during a similar period (see Table 5 in Appendix).

DEATHS.

The total number of Deaths from all causes registered during the year amounted to 1,881, of which 990 were males and 891 females, giving a Death Rate of 17.6 per thousand for the entire Borough, compared with 19.1 in the previous year, and 18.3 for England and Wales.

If we allocate the Deaths occurring in the three principal divisions of the Borough, we have a Death Rate in each as follows:—

Town Proper 20·36 per thousand Portswood and Bitterne Park ... 12·97 of the Shirley, Freemantle, and Millbrook ... 13·99 population.

An increased Death Rate in the Town Proper over other Districts is due, to a great extent, to the age distribution, the greater crowding on space of the inhabitants, the nature of occupation, and increased Infantile Mortality.

The above are the general causes which lead to an increased mortality in the crowded portions of the Town, compared with the higher or more sparsely populated districts.

AGE AND RELATION TO DEATHS.

Of the 1,881 deaths registered, 448 occurred under the age of one year, 182 over one and under five years, 543 between the ages of twenty-five and sixty, and 579 among persons exceeding sixty years (see Table 3).

INFANTILE MORTALITY.

This is calculated upon the number of Deaths occurring during the year under one year of age to a thousand Births.

The mortality under this heading during the year amounted to 152 per thousand Births, compared with 178 in 1899, and 154 for England and Wales for the present year.

ZYMOTIC DEATH RATE.

The Zymotic Death Rate is calculated upon the number of Deaths occurring from the seven principal Diseases, viz.:—Small Pox, Scarlet Fever, Whooping Cough, Typhoid Fever, Measles, Diphtheria, and Diarrhea. The total amounted to 163, giving for the year a Death Rate in this class only of 1.51 per thousand persons living, against 2.88 in 1899. The Zymotic Death Rate is the lowest recorded in the Borough since 1894 (see Table 5).

ANALYSIS OF DEATH RETURNS.

As in previous years, the weekly returns have been tabulated, and the causes of death allocated to their various classes.

GENERAL DISEASES.

Phthisis.—152 deaths were attributed to this disease. The persons affected belonged chiefly to the labouring classes, labourers and seamen suffering most. These deaths occurred principally in the low-lying crowded portions of the Town.

General Tuberculosis claimed 9 deaths, against 14 in 1899.

Tabes Mesenterica.—Twenty-two deaths were recorded, 21 of which occurred in children under five years of age.

Tubercular Meningitis was responsible for 17 Deaths.

Tubercular Peritonitis I Death, making a total of 201 Deaths due to Tubercular disease.

Respiratory Disease.—325 deaths were recorded under this heading, which includes Bronchitis, Pneumonia, and Pleurisy. The number exceeds the record of any year subsequent to 1892, when 363 deaths occurred. The explanation is to be found, if we consider, that during the first three months of the year under review an outbreak of Influenza existed, which proved directly fatal in 52 instances,

the largest number ever recorded in Southampton under this heading. It is probable that other persons succumbed from complications so common in this disease, viz.:—Bronchitis and Pneumonia.

Cancer. – The number of deaths registered under this heading amounted to 80, which is less than last year, when 91 deaths were registered.

Alcoholism claims ten deaths, the same number as in 1898 and 1899.

Small Pox.—Twenty-one cases of this disease were reported and isolated during the year. One proved fatal.

Case 1.—F. B., age 21, of Shirley Park Road. Admitted to Hospital Ship January 3rd. The patient was a fireman on the SS. "Nile." He arrived in Southampton in good health eight days previous to his attack.

·Case 2.—J. B., aged 20, of Millbank Street. Notified and admitted to Hospital Ship January 17th. The patient was a fireman on SS. "Clyde." He arrived in Southampton some days previous to illness.

Case 3.—J. B., aged 45, of SS. "La Plata." Removed to Hospital Ship direct from Vessel.

Case 4.—Lily M., Cossack Place. Notified and removed April 15th. Source of infection undiscovered.

Case 5.—Susan D., Latimer Street. Notified and removed April 18th.

Cases 6, 7, 8, 9, 10, occurred to members of one family in Brinton's Road. All were removed to Hospital Ship April 30th and May 2nd.

Cases 11 and 12 were husband and wife, residing in Northam. Admitted to Hospital Ship May 18th and June 6th.

Case 13.—A. K., aged 24, of Radcliffe Road. Admitted to Hospital Ship June 14th.

Cases 14, 15, 16, and 17, refer to four Soldiers removed off Netley from the Transport "Kildonan Castle" to Hospital Ship October 5th.

Case 18.—B. G., aged 32. Negro employed on SS. "Magdalena." Taken ill some days after arrival. Notified and removed to Hospital Ship October 25th.

Case 19.—C. G., aged 25. Negro on SS. "Don." Discovered in Lodging House and removed to Hospital Ship November 9th. Severe confluent case, terminating fatally.

Case 20.—C. A., aged 26. Admitted to Hospital Ship for Itchen Urban Sanitary Authority.

Case 21.—J. A., aged 21. Admitted for South Stoneham Sanitary Authority.

It is believed that the cases of Small Pox affecting Sailors after their arrival in Southampton was due to their exposure to infection at Lisbon, where the disease was known to exist. The origin of infection to other cases could not be discovered. The prompt notification and removal of the cases to Hospital Ship, together with disinfection and subsequent vaccination and re-vaccination of all persons who had been in contact with the cases, prevented the spread of the disease.

With regard to infection brought by the SS. "Clyde," Southampton was more fourtunate than other Districts, as the following extract from a report, dated February 8th, will show:—

"In regard to the infection from the "Clyde," we have had communications from London, Edinburgh, and Lymington, showing that, although the passengers landed perfectly well in Southampton, they developed Small Pox some days after their arrival at home. The same history applies to Lymington, except that the imported case in that district has led to several others. I am of opinion that this is a favourable opportunity to again request the Local Government Board to add Small Pox to the list of diseases contained in their regulations made in accordance with the Public Health Act of 1896. We should then be able to take the necessary precautions to warn the Local Authorities throughout the country of the arrival of persons from a district infected with Small Pox in manner similar to the arrivals from districts infected with Cholera, Plague, and Yellow Fever."

Scarlet Fever.—A decrease in the notification took place in respect of this disease; 223 cases were notified, against 294 in the previous year. Of these cases 143, or 64 per cent., were isolated in Hospital. The largest number of notifications took place in the third quarter of the year. Other cases were notified evenly throughout the year.

Measles.—An outbreak of this disease occurred during the early part of the year, resulting in 51 deaths. The disease was most prevalent during the first half of the year, when 46 deaths were registered. The outbreak entirely subsided by the end of August. This disease is not notifiable, information regarding its presence could only be obtained by enquiries in the neighbourhoods where the deaths occurred, together with information courteously afforded by Private Medical Practitioners, and by School Managers and Teachers and Officers of the School Board.

Action Taken. — Two schools (St. Joseph's and Holy Rood) were so seriously attacked that it became necessary to close them for a period of three weeks. Infected houses were frequently visited and disinfected on the recovery of the patients.

Typhoid Fever.—One hundred and sixteen cases were reported, as compared with 188 in the previous year. Thirty-seven of these cases were removed from or imported by vessels entering the Port, and one case was removed from a neighbouring district.

*Diphtheria.—One hundred and thirty-four cases were notified and investigated, 24 of which proved fatal. Of the 134 cases notified, two cases were imported by vessels and two cases were removed for isolation from neighbouring districts. One hundred and one cases of the total notified occurred among children below the age of fifteen years, and 32 between fifteen and sixty-five years of age. Fifty-five were removed to Hospital, or 41 per cent. of the cases notified.

^{*}Including Membranous Croup.

Infantile Diarrhæa. — Cases of this disease occurred during the months of August and September. During the year 41 deaths occurred from this disease among infants under one year of age, and seven over one year, making a total of 48 deaths. The majority of these deaths occurred during the month of September.

SOUTHAMPTON ISOLATION HOSPITAL.

The most important item of interest during the year was the opening of the New Isolation Hospital by the Worshipful the Mayor (Alderman G. A. E. Hussey), February 12th, 1900.

The Institution was fully described in my previous Annual Report. The total number of patients admitted during the year amounted to 286.

Hospital Ambulance. — The use of the Carriage Ambulance obtained in the early part of the year has been greatly appreciated by patients. It is difficult to distinguish it from a private conveyance.

Neighbouring Sanitary Authorities have readily availed themselves of your Committee's offer to admit patients into the Southampton Isolation Hospital on payment.

The following is the scale of charges adopted by the Council for the reception of private patients or for persons removed from outside districts. During the year £106 6s. 5d. was received for the maintenance of patients, and there is still a further sum of £114 8s. od. outstanding. (The amount outstanding has since been recovered):—

COUNTY BOROUGH OF SOUTHAMPTON. TARIFF FOR PAYING PATIENTS, ISOLATION HOSPITAL, SOUTHAMPTON.

SCARLET FEVER.

Isolation in the Public Wards for persons outside the County Borough of Southampton.

£1 118. 6d. per week, plus cost of removal by ambulance.

Private Ward for persons residing outside the County Borough of Southampton.

Private Ward for residents within the County Borough of Southampton.

DIPHTHERIA.

Isolation in the Public Wards for persons residing outside the County Borough of Southampton.

Private Wards for persons residing outside the County Borough, of Southampton.

Private Wards for persons within the County Borough of Southampton.

TYPHOID FEVER.

Isolation in Public Wards for persons residing outside the Borough of Southampton.

Private Ward for persons residing outside the County Borough of Southampton.

Private Wards for persons residing within the County Borough of Southampton.

SMALL POX.

Isolation in Public Wards on Hospital Ship for persons residing outside the County Borough of Southampton.

MEASLES.

Removed from Ships.

£3 3s. od. per week.

£2 2s. od. per week.

£1 11s. 6d. per week, plus cost of removal by ambulance.

£3 3s. od. per week.

£2 2s. od. per week.

£2 2s. od. per week, plus cost of removal by ambulance.

£4 4s. od. per week.

£3 3s. od. per week.

£3 3s. od. per week, plus cost of removal by ambulance.

£2 2s. od. per week.

£1 11s. 6d. if two or more in same ward.

REPORT FOR THE YEAR 1900.

Patients were admitted to the West Quay Hospital until March 6th. On the 6th March the whole of the patients, comprising 15 cases of Scarlet Fever, were transferred to the new Hospital.

The first fresh case was admitted to the new Hospital on the 6th March.

The accompanying Tables give particulars of the Diseases treated during the year.

SCARLET FEVER.

The cases were chiefly of a mild type, although amongst them were a few with severe complications and sequelæ.

There was only one death, the cause being Meningitis.

DIPHTHERIA.

In this disease the death rate still remains high. Of the ten deaths two occurred within twenty-four hours of admission, one being within one hour.

Apart from this, the high death rate is largely owing to the fact that the cases do not come under treatment early enough.

The following Table will emphasise this:-

Day of Illness when

Admitted.	Number.	Recovered.	Died.
First	4	4	О
Second	ΙΙ	11	O
Third	7	6	I
Fourth	5	2	3
Fifth	7	6	I
Later	10	7	3

Thus of eight cases that died only one was admitted before the fourth day, whereas of 36 cases that recovered 21 were admitted before the fourth day.

The Anti-Toxin treatment has been applied to practically all the cases; even in very mild cases, and those in which the diagnosis is doubtful, it is of great value as a prophylactic.

BACTERIOLOGICAL EXAMINATIONS.

Bacteriological examinations in regard to Diphtheria have been made regularly during the latter half of the year.

Of the cases so examined, 3 out of 16 have been shown to be non-diphtheritic.

The information so given has enabled us to properly isolate such cases, and to discharge them from Hospital after a much shorter stay than is required in true Diphtheria.

TYPHOID FEVER.

Of the 52 cases admitted, the Table given shows that a large proportion—viz., 22—were removed from ships arriving at this Port.

Of the three deaths, two occurred within 48 hours of admission.

MEASLES.

The 13 cases admitted comprise:-

Seven cases removed from ships.

Four cases removed from the Emigrants' Home.

Two cases admitted from the Town, one being sent in as Scarlet Fever, and the other removed from the Hospital Ship.

Disease.	Remaining in Hospital 31st Dec., 1899.	Admitted.	Discharged.	Died.	Remaining in Hospital 31st Dec., 1900.	Average Duration of Stay.	Mor'ality per Cent.
Scarlet	2.4	143	141	I	25	DAYS. 58.6	0.4
Diphtheria	_	55	42	10	3	21	18
Typhoid	_	52*	44	3*	5	27.2	3.8
Measles	_	13	13	_		18	_
Small Pox	_	22	21	I		28	4.2
Lymphangitis		1	1			2 [
Total	24	286	263	15	33		

^{*} One case admitted as Typhoid Fever proved to be Meningitis, and died in the Hospital.

COMPARATIVE MORTALITY OF CASES IN HOSPITAL AND AT HOME.

Disease.	Total No. of Cases.	Mortality per Cent.	Admitted to Hospital.	Mortality per Cent.	Treated at Home.	Mortality per Cent.	Case Mortality in 1899.
Scarlet	230	.87	143	-7	87	1.12	.34
Diphtheria	134	20.12	55	18.3	79	21.22	26.8
Typhoid	116	12.93	52	3.8	64	20.31	10.6

SOURCE OF CASES.

Source of Cases.	Scarlet.	Typhoid.	Diphtheria.	Measles.	Small Pox.
Southampton	137	30	50	6	II
Other Sanitary Authorities	4		2		2
Ships	2	21	2	7	9

PRIVATE PAYING PATIENTS ADMITTED.

Total	•••		1	13
Measles	•••	•••		4
Typhoid Fever	•••	•••	• • • •	6
Diphtheria	•••	•••	•••	I
Scarlet Fever	•••	•••	•••	2

SUMMARY OF GENERAL ROUTINE WORK Receiving the attention of the Health Department during the Year 1900.

Nuisances reported by the Sanitary Inspectors	•••	2770
Nuisances reported at the Office by Residents	•••	550
Preliminary Notices served and complied with	for	
Abatement of Nuisances	•••	7 ⁸ 4
Legal Notices served for Abatement of Nuisances	•••	343

Nuisances abated by Verbal Not	tice	•••	2,148
House-to-House Inspections ma	de by the Inspecto	ors	1,255
Inspections and re-Inspections to Nuisances	by Inspectors rel	ative 	14,913
Inspectors' Visits to Houses in	consequence of N		-4,5-3
cation of Infectious Diseases	-	•••	795
Number of Inspections of Courts	s and Alleys	•••	459
Houses disinfected	•••		432
Schools disinfected	•••		5
Drains tested with Smoke		•••	281
Drains tested with Water		•••	501
Drains found Defective after Te	sting	•••	276
Drains found Choked and subsec	quently Cleared		461
Drains reconstructed	•••	•••	375
Drains re-trapped	•••	•••	547
Drains disconnected from Sewer	and Ventilated		182
Inspection Chambers provided t	o House Drains		94
Bath, Lavatory, and Slopsto	ne Waste Pipes	dis-	
connected from Drains and	made to discharge	over	184
open Gully Traps	•••	•••	·
New Pans fixed to Closets	•••	•••	394
Cesspools and Catchpits abolish			62
Soil Pipes (indoor) abolished an on outside of Houses and V		fixed	51
Old Drains abolished and new I		•••	3 9
Water laid on to Closets for flus		•••	148
Houses cleansed and whitewash	•		257
Pan-Closets abolished and mode			18
Courts, Water-Closets, and Urin			38
Badly-constructed Slopstone Sir		4	67
Urinals and Water-Closets re-co		•••	36
		•••	10
Water-Closets in houses externa		•••	
Privies abolished and water class	•	ditto	19
FILMES SHOUSHED SHO WATER CLOS	sers sunsmilled	THELL	10

3
3
9
8
12
138
81
122
I
5
I
I
27

SCHOOLS.

The following Public Schools have been disinfected owing to outbreak of Diphtheria and Scarlet Fever among the Scholars.

St. Edmund's School

St. James' ,, Shirley.

St. Joseph's ,,

St. Mark's ,, twice.

GENERAL SANITARY WORK.

Nuisances reported to the Department.

The total number of nuisances reported amounted to 3,320 of which 550 were reported by Residents of the Borough, necessitating the visit of an Inspector to the premises to investigate and report on the complaint.

Of the 14,913 visits made to premises, the majority were made to supervise the carrying out of the Sanitary Authorities requirements to abate the nuisances.

INFECTIOUS DISEASES NOTIFICATION.

Seven hundred and ninety-five visits were made by the Inspectors to infected houses for the purpose of enquiries, the removal of Patients, or disinfection of infected premises.

Abatement of Nuisances. — Of the 3,320 nuisances reported, 2,148 were abated by Verbal notice, 784 were abated by Preliminary notice, and 343 by Legal notice issued by order of the Sanitary Authority, while 35 notices remains over for subsequent compliance.

Water Closets without Water.—In Shirley and Freemantle, 25 legal notices were served to provide efficient flushing apparatus to closets. These were complied with.

123 notices were served for a similar purpose in other portions of the Town, and complied with.

UNSOUND FOOD SEIZED AND DESTROYED BY ORDER OF THE JUSTICES.

Meat, 1,398 lbs.; Fish including Bloaters, Skate, Haddock, Shrimps, Crabs, Whiting, Plaice, and Mackerel, 1,150 lbs.; Potatoes, 11 tons 3 cwt.; Fruit, 296 lbs.; and 60 Rabbits.

ARTICLES DISINFECTED AT THE STEAM DISINFECTOR.

The total number of articles amounted to 50,091, made up as follows:—Beds and Mattresses, 2,602; Bolsters and Pillows, 3,817; Blankets and Quilts, 5,970; Sheets, 3,400; Counterpanes, 1735; Sundries, 32,567.

FOOD AND DRUGS ACT.

During the year 208 samples were taken by the Sanitary Inspectors and submitted to the Public Analyst for analysis as follows:—Milk, 98, Butter, 63, Condensed Milk, 4, Coffee, 24 Beer, 19.

FOOD AND DRUGS ACT.

Samples of Food submitted to the Public Analyst for analysis by the Sanitary Inspectors.

NO.	DATE.	ARTICLE.	RESULT OF ANALYSIS.	REMARKS.
I	Jan. 12	Milk.	Above average quality.	
2	,, 12	,,	Below average quality.	
3	,, 12	,,	Exceptionally good quality	
4	,, 12	11	Average quality.	
5	,, 19	,,	Considerably below aver-	
			age quality.	
6	,, 19	1,	Ditto.	
7	,, 19	,,	Above average quality.	
8	,, 19	,,	Considerably above aver-	
		a	age quality.	
9	,, 26	Coffee.	Genuine.	
10	,, 26	,,	Ditto.	
ΙΙ	,, 26	,,	Ditto.	
12	,, 26	34:11	Ditto.	
13	,, 31	Milk.	Average quality.	
14	,, 31	,,	Ditto.	
15	,, 31	,,	Slightly above average	
16	2.7		duality. Below the average in qua-	
10	,, 31	1)	lity.	
17	Feby. 1		Average quality.	
18	1 -	Butter.	Genuine Butter, free from	
10	,, 9	Button	preservative.	
19	,, 9		Genuine Butter, artificially	
- 2	,, 9	,,,	coloured & containing	
			boric acid.	
20	,, 9	13	Genuine Butter, containing	
	"	.,	boric acid.	
2 I	,, 9	,,	Genuine Butter, artificially	
			coloured & containing	
	}		boric acid.	
22	,, 16	,,	Genuine Butter, containing	
			boric acid.	
23	,, 16	,,	Ditto.	
24	,, 16	,,	Genuine Butter, artificially	
			coloured & containing	
			boric acid.	
25	,, 16	Milk.	Ditto.	
26	,, 23	WIIIK.	Average quality.	
27	,, 23	,,,	Slightly below the average	
28	22		quality. Considerably above aver-	
20	,, 23	31	age quality.	
2)	,, 23		Sample deprived of not less	N 1
-,	,, 23	12	than 43 parts out of	1900. March 22.
			every 100 parts of the	Fined 10/- &
			fat it originally con-	6/6 costs.
			tained.	
30	,, 28	,,	Very poor quality.	
31	Mar. 1	Butter.	Butter containing boric	
			acid as a preservative.	

		1 19	1	
NO.	DATE.	ARTICLE.	RESULT OF ANALYSIS.	REMARKS.
32	Mar. 1	Butter.	Butter containing boric acid as a preservative.	
33	,, I	,,	Ditto.	
34	,, I		Ditto.	
35	,, 9	Colfee.	Genuine Coffee.	
36	,, 9	,,	Ditto.	
37	,, 9	"	Ditto.	
38	٠, ٥	,,,	Dttto.	
39	,, 16	Milk.	Considerably above average quality.	
40	,, 16	,,	Average quality.	
4 I	,, 16	,,	Considerably above aver-	
			age quality.	
42	,, 16	,,	Slightly above average quality.	
43	,, 23	Butter.	Butter containing boric acid as a preservative.	
44	,, 23	11	Butter.	
45	,, 23	17	Butter containing borie	
. c			acid as a preservative.	
46	,, 23	1,	Ditto.	
47	,, 30	"	Butter. Butter containing boric	
48	,, 30	"	aeid as a preservative.	
49	,, 30		Ditto.	
50	,, 30) 1	Ditto.	
51	April 6	Milk.	Sample contained in every	
•			100 parts not less than	
			2 parts of added water.	
52	,, 6	11	Considerably below aver-	
			age in quality.	
53	,, 6	11	Very poor quality, slightly deficient in cream.	
54	", б	"	Average quality.	
55	,, 18	Coffee.	Genuine.	
56	,, 18	,,	Ditto.	
57	,, 18	Milk.	Ditto.	
58	., 27	WHIK.	Average quality.	
59	,, 27	,,	Below the average in quality.	
60	,, 27	"	Average quality.	
61 62	,, 27 May 7	"	Above average in quality. Below average in quality.	
63	-	"	Slightly below average	
	,, 7	"	quality.	
64	'' 7	12	Average quality. Ditto.	
65 66	,, 7 ,, 10	Butter.	Butter containing boric	
6=			acid as a preservative.	
67 68	,, 10	"	Ditto.	
69	,, 10	"	Ditto.	
70	,, IO	"	Ditto.	
71		1,	Ditto.	
72	27	"	Ditto.	
73	,, 21 ,, 21	"	Ditto.	
, ,	,,	,,		

NO.	DATE.	ARTICLE.	RESULT OF ANALYSIS.	REMARKS.
74	May 21	Butter.	Butter.	
75	,, 24	Coffee.	Genuine.	
76	,, 24	,,,	Ditto.	
77	,, 24	,,,	Ditto.	
78	,, 24	,,	Ditto.	
79	June I	Conden-	Separated condensed milk	•
	1	sed Milk.	with added sugar.	
80	,, I	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Condensed and sweetened	
81	,, I		Ditto.	
82	1 " +	"	Ditto.	
83	"	Milk.	Slightly below average in	
~3	,, 12		quality.	
84	,, 12		Average quality.	
85	l " +a	"	Ditto.	
86	l " 72))))	Sample deficient in fat 10	Topo July
	,, 12	,,,	parts out of every 100	1900. July 11.
			parts originally present,	Fined 10/- & 8/6 costs.
			and in every 100 parts	ojo costs.
			at least 10 parts of	
			added water.	
87	,, 15		Average quality.	
88	" 15	,,	Considerably above aver-	
		1	age quality.	
89	., 15	,,	Exceedingly rich in cream.	
90	, 15	,,	Slightly below average	
			quality.	
91	,, 22	Coffee.	Genuine.	
92	,, 22	>>	11	
93	,, 22	,,		
94	,, 22	Milk.	D-13	
95	,, 28	MIIK.	Below average in quality.	
96	,, 28	"	Slightly above average in	
07	28		quality. Considerably below aver-	
97	,, 20	"	age quality.	
98	28		Average quality.	
99	July 10	Butter.	Butter containing boric	
	July 13		acid as a preservative.	
100	,, 10	,,	Ditto.	
101	,, to	,,	Ditto.	
102	,, 10	,,,	Ditto.	
103	,, 13	,,	Ditto.	0
104	,, 13	33	Margarine as defined by	1900. Sept. 5.
			the Margarine Act.	Fined 10/- and
				6/6 costs, and
				10/- and 6/6
				costs, the same
				belled.
			D 442	bened.
105	,, 13	33	Butter containing boric	
106	7.0		acid as a preservative.	
106	,, 13	Milk.	Ditto.	
107 108	,, 23		Below average in quality. Very poor quality.	
	,, 23))	Ditto.	
109	,, 23	"	Ditto.	

NO.	DATE.	ARTICLE.	RESULT OF ANALYSIS.	REMARKS.
110	July 23	Milk.	Average quality.	
111	Sept. 6		Below average quality.	
	1	31	Ditto.	
112	,, 6	21		
113	" 6	,,,	Above average quality.	
114	,, 6	"	Considerably below aver-	i
115	,, 11	Butter.	Butter containing boric acid as a preservative.	
116	,, 11	"	Genuine.	
117	,, 11	21	Butter containing boric acid as a preservative.	
118	,, 11) ,,	Ditto.	
119	,, 14	,,,	Genuine.	
120	,, 14	13	Butter containing boric	
	" - +	,,	acid as a preservative.	
121	,, 14		Genuine	
122	,, 14	"	Margarine as defined by	1900. Oct. 25.
122	,, 14	1)	the Margarine Act.	Fined 40/- and 9/6 costs, and 3/- for being unlabelled.
123	,, 14	**	Margarine as defined by the Margarine Λct.	Test sample.
124	,, 15	,,	Ditto.	
125	,, 17)1 11	Ditto.	1900. Nov. 2. Fined £10 & 10/6 costs.
126	,, 19	,,	Ditto.	Test sample.
127	,, 20		Ditto.	
128	,, 25	Milk.	Considerably above aver-	
	11 -3		age.	
129	,, 25		Ditto.	
130	0.5	"	Ditto.	
131		"	Slightly above average.	
132	,, 25	,,	Average quality.	
	0.5	"	Considerably above aver-	
133	,, 25	"	age.	
724	25		Slightly below arveage.	1
134	,, 27	Butter.	Genuine.	
135	,, 27	Milk.	Sample contained pure	Test sample.
136	j ,, 27	IVIIIK.	milk about 68 parts in	1 csc sample.
			every 100 parts, and	
			added water not less	•
T 2 F	0		than 32 parts.	
137	Oct. 7	"	Above average in quality.	
138	,, 7	11	Exceptionally rich in cream.	į
139	,, 7	31	Average quality.	
140	,, 14	11	Sample contained in every	
			100 parts at least 2 parts	
			of added water.	
141	,, 14	"	Considerably above aver-	
			age quality.	
142	,, 14	"	Below average quality.	
143	,, 14	,,	Poor quality.	
144	,, 14	,,	Considerably above aver-	
	1		age quality.	

168 , 30 Milk. Sample contained 11 parts of added water. 169 Nov. I Coffee. Genuine. Ditto. 170 , I , Ditto. 171 , I , Butter. Ditto. Margarine as defined by the Margarine Act. 169 Nov. I Coffee. Genuine. Ditto. Margarine Act. 170/- and 8/6 for not being labelled. 1900. Nov. 27 Fined £5 and 11/6 costs.			,		
Exceptionally good quality Slightly above average quality.	NO.	DATE.	ARTICLE.	RESULT OF ANALYSIS.	REMARKS.
Exceptionally good quality Slightly above average quality.	145	Oct. 14	Milk.	Average quality.	
147	-	7.4			
148					
149	- 17	,, -1	"		
149	148	,, I4	,,	Average quality.	
150		7.4	,,	Considerably above aver-	
151					
152	150	,, 14	31		
153	151		"		
153	152	,, I4	, ,,	-	
154	152	т,			
155	*55), 1 4	33	·	
Very poor quality. Considerably above average.	154	,, I4	11		
156			11		
157		,, I4	21	Considerably above aver-	
158					
159			11		
160	-	+ Q			
Average quality. Above average quality. Sample contained in every 100 parts two parts of added water. Butter. Ditto. Ditto.	139	,, 10	* * * * * * * * * * * * * * * * * * * *	*	
161	160	., 18	,,		
162		+ Q		Above average quality.	
163	162	-0		Sample contained in every	
163	1				
164			5		
Ditto. Ditto. Ditto. Ditto. Ditto. Ditto. Ditto. Ditto. Ditto. Margarine as defined by the Margarine Act. Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Ditto. Ditto. Ditto. Ditto. Ditto. Ditto. Ditto. Ditto. Margarine as defined by the Margarine Act. Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Ditto. Ditto. Ditto. Ditto. Ditto. Margarine Act. Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Sample contained 11 parts of added water. Since \(\frac{1}{2}\) Sample contained 11		" -	Butter.		
165		" 26	12		
Margarine as defined by the Margarine Act. 1900. Nov. 27 Fined 20/- and 8/6 costs, and 10/- and 8/6 for not being labelled. 1900. Nov. 27 Fined 25 and 10/- and 8/6 for not being labelled. 1900. Nov. 27 Fined £5 and 11/6 costs.		26			
the Margarine Act. The Margarine Act. Fined 20/- and 8/6 costs, and 10/- and 8/6 for not being labelled.		" 6	1		1000. Nov. 27.
168	107	,,	"		Fined 20/- and
168					8/6 costs, and
Milk Sample contained II parts of added water. Igoo. Nov. 27 Fined £5 and II/6 costs.					10/- and 8/6
Milk. Sample contained II parts of added water. 1900. Nov. 27					for not being
Nov. Coffee. Genuine. Ditto. Ditto. Ditto. Ditto. Margarine as defined by the Margarine Act. Case dismiss ed. Appear lodged.				S1id	
Nov. Coffee. Genuine. Ditto. Ditto.	168	,, 30	Milk.		
169				or added water.	
170	160	Nov I	Coffee	Genuine.	11/0 costs.
171	-				
Hargarine as defined by the Margarine Act. 173		l " +	1	1	
the Margarine Act. Case dismiss ed. Appeal lodged. Above average quality. Exceptionally rich in cream Slightly below average. Considerably above average. Considerably above average. Slightly above average. Above average. Butter. Genuine. Ditto. Butter containing boric		1		Margarine as defined by	1900. Nov. 27.
173				the Margarine Act.	Case dismiss-
173	·				
174			3.633	Above everencelive	lodged.
Slightly below average. Considerably above average Slightly above average Slightly above average Slightly above average Slightly above average Above average Above average Genuine Ditto Butter Containing Ditto Butter Containing Ditto Butter Containing Ditto Butter Containing Ditto Containing Ditto Containing Ditto Containing Ditto			Milk.		
176		7.2	1		
177		20			
178		1 " 20	1		
179		" 20	1		
180 , 23 , Ditto. Butter containing boric	-	" 22			
181 , 23 , Butter containing boric		22		Ditto.	
acid as a preservative.	_	22			
•		1	1	acid as a preservative.	

NO.	DATE.	ARTICLE.	RESULT OF ANALYSIS.	REMARKS.
182	Nov. 23	Butter.	Genuine.	
183	Dec. 3	,,	Ditto.	
184	,, 4	Beer.	Beer free from Arsenic	
185	,, 4	13	**	
186	,, 4	,,,	1.	
187	,, 4	1,	1	
188	,, 4	12	**	
189	,, 4	1 •1		
190	,, 4	11	11	
191	,, 4	,,	39	
192	,, 4	11	17	
193	,, 4	11		
194	,, 4	11	13	
195	,, 4	19	22	
196	,, 4	73	17	
197	,, 4	,,	21	
198	,, 4	,,	11	
199	,, 4	11	11	
200	,, 4	21	"	
201	,, 4	Coffee.	Genuine.	
202 203	" 6		Ditto.	
203	1 " 6	Butter.	Ditto.	
205	" 6	Milk.	Slightly below average	
205	"	1	quality.	
206	6	,,	Below average quality.	
207	6		Average quality.	
20%	1, 7		Beer free from Arsenic.	

Of these samples 16 were found adulterated. Proceedings were taken and penalties obtained in seven cases. One case was dismissed; appeal lodged by the Sanitary Authority.

See Analyst's Report in appendix.

COMMON LODGING HOUSES.

There are eight Registered Common Lodging Houses in the Borough. The number of inspections made during the year amounted to 371, during the months of April and October the whitewashing was carried out in accordance with the Public Health Act. No case of Infectious Disease occurred among the inmates during the year.

CASES BEFORE THE JUSTICES OTHER THAN FOOD AND DRUGS CASES DURING THE YEAR 1900.

Particulars.	Fines.
For wilful Exposure in the Public Streets, without proper piecautions, while suffering from Searlet Fever	10/- and costs.
For being in charge of a Person suffering from Searlet Fever, and permitting such sufferer to expose herself in the Public Streets	10/- and costs.
For being in possession of a quantity of Unsound Meat	£36 7s. 6d., including eosts.

HOUSES UNFIT FOR HUMAN HABITATION.

During the year the following Houses have been certified as unfit for Habitation:—

Situation of Property.	No. of Houses.	Date of Notice.	Remarks.
Graham Street, 6	One House	Jan. 30	House made habitable
Orchard Lane, 56, 57	Two Houses	,, 30	Houses demolished
Lansdowne Hill, 26, 27, 28	Three Houses	Feby. 2	Houses elosed
Castle Buildings, 2, 3	Two Houses	May 25	Ditto
Millbank Street, 121	One House	,, 25	House made habitable
Brooklyn Terrace	9 Houses	Oet. 8	Houses being made
Brooklyn Road	28 Houses	., 8	habitable Ditto.
Brooklyn Terrace	23 Houses	,, 29	Ditto.

PREMISES CONNECTED TO THE PUBLIC SEWERS IN THE WESTERN DISTRICT OF THE ADDED AREAS, 1900.

Situation of Premises.	Houses Connected to Public Sewer.	Cesspools Abolished.	Privies Abolished.
Berrywood	I 2	7	
Millbrook	6	4	I
Regent's Park	3	-	-
Romsey Road	8	_	8
Mousehole Lane	I	I	_
Kingsley Estate and	II	I	8
Maybush	I		I
Shirley	38	14	2

WELLS.

A sample of water from a private well was taken at Shirley and submitted to the Public Analyst for analysis. The water was found polluted. The well was closed, and water from the South Hants supply laid on to the premises.

INSPECTIONS MADE OF SLAUGHTER HOUSES, WORKROOMS, &c.

	NO.	NUISANCES ABATED.			
	OF VISITS.	LIMEWASHING.	OTHER NUISANCES		
Slaughterhouses	. 1395	76	19		
Dairies, Cowsheds, &c	. 514	15	7		
Workshops	. 378	26	16		
Bakehouses	. 451	127	3		
Other Premises	. 73	_	2 I		
On Complaint	. 31		_		

Slaughterhouses.—Number on register, 44, one of which is not in use. During the year 2 licences have been transferred, 3 have been given up, and the premises re-built in two cases.

Dairies, Cowsheds, &c.—The number of premises on the register is 268, including 20 cowsheds, 47 dairies, 15 private houses, and 5 retail beer-houses. The remainder, 171, consists largely of small general shops.

Workshops.—Number on register, 276.

Bakehouses.—Number on register, 135.



APPENDIX A.—CONTENTS.

SYNOPSIS OF TABLES.

- Table 1.--Showing Births and Birth Rates for the whole Borough and various Districts for ten years, 1891-1900.
 - " 2.—Showing Deaths and Death Rates for the whole Borough and various Districts for ten years, 1891-1900.
 - 3.—Death from all causes at subjoined ages in the Borough of Southampton, from 1891-1900.
 - " 4.—Causes of Deaths in Southampton for ten years, 1891-1900.
 - " 5.—Showing Population, Birth Rates, Death Rates, Zymotic Death Rates, Infantile Mortality, and Marriage Rates in Southampton and England and Wales for twenty years, 1881-1900.
 - 6.—Table prepared in accordance with Local Government Board's instructions. Showing Population, Births, and Deaths for ten years.
 - ,, 6A.—Ditto. Showing Population, Births, and Deaths in the various Districts of the Borough for ten years
 - ,, 6B.—Ditto. Showing cases of Infectious Diseases notified during 1900, Classified according to ages and localities, and the number removed to Hospital.
 - ,, 6c.—Ditto. Showing Deaths occurring in 1900, Classified according to diseases, ages, and localities.
 - , 7.—Deaths from Zymotic Diseases for five years.
 - ,, 8.—Comparative Mortality of Southampton and forty-two towns.
 - " 9.—Showing causes of, and ages of all Deaths occurring in the Borough of Southampton, during the year ended 31st December, 1900.
 - " 10.—Showing Marriage Rate, Birth Rate, Death Rate, Zymotic Death Rate, and Infantile Mortality for the Borough and its various Districts for the Year 1900.
 - ,, 11.—Showing number and description of cases of Infectious Disease notified to the Medical Officer of Health in each of the four quarters of 1900.
 - ., 12.—Showing all Diseases notified during the past nine years, and the number of them admitted to Hospital.
 - " 13.—Vaccination returns for Town Proper.
 - ,, 14.—Abstract from the Meteorological Register kept at the Ordnance Survey Office, Southampton, during the year 1900.

APPENDIX A.

NOTE.—The totals in the following Tables include Deaths of Non-Residents, but the various Death Rates are calculated upon corrected totals.

TABLE 1.

Showing births and birth rates for the whole borough and various districts for 10 years—1891—19(0.

Year	Whole Borough.				Town Proper		Portswood		Shirley and Freemantle	
	Males	Females	Total births	Birth rate	Total births	Birth rate	Total births	Birth rate	Total births	Birth rate
1891	1069	976	2045	31:30	1740	31:37	305	30.92		
1892	988	923	1911	28.63	1639	29.14	272	26:15		_
1893	1.48	997	2015	29.50	1704	29:90	311	28.01	_ !	
1894	1097	1016	2113	30.19	1797	30.98	316	26:33	- 1	_
1895	1085	1095	2180	30.38	1874	31.90	306	23:54	-	_
1896	1467	1392	2859	30:36	1912	32.13	368	25.82	579	23:38
1897	1458	1479	$\lfloor 2937 \rfloor$	30.43	1886	31.43	439	28.78	612	28.73
1898	1545	1400	2945	29:76	1847	30.55	479	29:94	619	28.21
1899	1534	1461	2995	29:55	1803	29.61	508	30.32	684	28.86
1900	1477	1452	2929	28.30	1751	28.58	484	27.65	694	28.04
Average 10 years.	1273	1219	2492	29.84	1795	30.55	378	27:74	637	28.50

TABLE 2.

Showing deaths and death rates for the whole borough and various districts for 10 years, 1891-1900.

Year	Whole Borough.				Town Proper		Portswood		Shirley and Freemantle	
	Males	Females	Total deaths	Death rate	Total deaths		Total deaths	Death rate	Total deaths	Death rate
1891 1892 1893 1594 1895 1896 1897 1898 1899 1900	614 723 704 629 716 837 864 882 1072 990	577 743 666 532 679 820 847 874 920 891	1191 1466 1370 1161 1395 1657 1711 1756 1992 1881	17:95 21:53 19:52 15:99 18:69 17:15 17:34 17:25 19:08 17:59	1069 1297 1230 1020 1240 1170 1209 1222 1402 1325	18:95 22:51 20:93 16:86 20:18 18:77 19:73 18:94 21:82 20:36	122 169 140 141 155 188 191 229 246 218	12:37 16:25 12:61 11:75 11:92 13:54 12:98 15:00 14:92 12:97	299 311 305 344 338	14·95 15·11 14·31 14·98 13·99
Average 10 years.	£0 3	755	1558	18:21	1218	19:90	180	13:43	319	14.67

TABLE 3.

DEATIES FROM ALL CAUSES AT SUBJOINED AGES IN THE BOROUGH OF SOUTHAMPTON, FROM 1891 TO 1900.

Year.	At all Ages.			5 and under 15	15 and under 25	25 and under 60	G() and upwards.
1891	1191	252	102	41	55	314	427
1892	1466	283	157	52	48	425	501
1893	1370	317	167	58	61	401	366
1894	1161	253	119	58	53	337	341
1895	1395	339	149	43	59	377	428
1896	1657	420	248	72	73	453	421
1897	1711	457	211	60	54	421	508
1898	1756	452	171	85	65	497	486
1899	1992	534	211	77	66	533	571
1900	1881	418	182	64	65	543	579

TABLE 4.

CAUSES OF DEATHS IN SOUTHAMPTON FOR TEN YEARS-1891 TO 1900.

Causes.	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900
Small Pox	1	1	9	3		1		4		1
Scarlatina	3	2	4	3	15	39	11	3	1	2
Diphtheria	2	1	6	5	3	6	9	54	50	26
Membranous Croup	_	1	2	-	2	3	1	4	2	1
Enteric or Typhoid Fever	9	16	22	13	10	13	6	24	20	15
Continued Fever	1	2			_	-	l	-	_	
Relapsing ,,	_	-		-	_	_	_		-	_
Puerperal ,,	1	2	1	1	5	5	1	1	1	
Erysipelas	1	3	5	6	-	6	1	2	4	5
Measles	12	8	4.5	13	14	62	47	16	31	51
Whooping Cough	5	20	15	31	7	22	61	26	40	19
Diarrhœa and Dysentery	13	28	54	13	6.5	50	SO	136	153	48
Rheumatic Fever	_	1	3	9	7	2	6	2	7	4
Influenza	3	41	5	13	18	5	16	15	22	52
Phthisis	100	108	102	111	109	143	141	135	165	152
Cancer	54	53	66	63	61	81	70	101	91	60
Bronchitis, Pneumonia, and	190	346	215	193	242	248	266	219	301	305
Heart Disease	108	121	98	83	112	126	121	164	161	1.99
Injuries	61	41	44	50	61	57	48	56	66	73
Other Diseases		671	644	551	664	788	825	794	877	888
Total	1191	1466	1370	1161	1395	1657	1711	1750	1992	1881

TABLE 5.

SHOWING POPULATION, BIRTH RATES, DEATH RATES, ZYMOTIC DEATH RATES, INFANTILE MORTALITY, AND MARRIAGE RATES IN SOUTHAMPTON AND ENGLAND AND WALES FOR TWENTY YEARS, 1881—1900.

											_													
	s.	Marriage Rate	England and Wales		1	1	ı	1	1+1	14.2	14.2	14.7	15.1	15.5	15.3	14.7	15.0	15.0	15.8	16.0	16.2	16.5	16.0	15.2
	Marriages.	Marri- age Rate		1	1	1	1	1	15.3	16.4	17·3	16.0	16.0	17.8	17.7	19.0	17.6	18.8	17.8	17.6	16.0	17.7	16.3	17:1
	Total Marri-		Marri- ages		1	1	1	1	481	520	551	51 4	520	583	589	8+9	617	675	838	848	791	968	9+8	661
			130	141	137	147	138	150	145	1+1	144	151	149	8†1	159	137	161	1+8	156	161	163	154	148	
	Infantile Mortality Deaths under 1 year	per 1,000 Births Registered.	South- ampton	119	131	137	114	146	140	145	126	117	129	133	148	157	119	155	1+6	156	153	178	152	139
-	ıths	Zymotic Death Rate England and Wales		2:32	2.73	2.50	5.64	2.19	2.36	2.50	2.10	1.77	2.03	1.83	1.90	2552	1.88	2.21	2:17	2.15	25.55	2.21	2.00	2.18
	Zymotic Deaths	Zymotic	Death Rate	1.98	1:31	2.79	1.21	2.34	1.13	2.13	1.47	1:32	1.26	0.72	1:15	2:35	1.14	1.53	5.0+	2.54	2.63	2.88	1:21	1.73
	Zyn	Total Zymotic Deaths		119	87	168	<u>15</u>	146	17	135	. 5:	1 2	85	47	79	157	81	111	192	217	267	297	163	133
		Death Rate	England and Wales	18:9	9.61	19.5	19.6	19.0	19.3	18.8	17.9	17.8	19.2	20.5	19.0	19.5	16.6	18:1	171	17.4	17.6	18:5	18:3	18.6
	Deaths		Rate	18.7	18.0	20.6	16.7	18.9	18.0	18.7	6.91	16:3	17.5	18.0	21:5	19.5	16.0	18:7	17.2	17:3	17.3	19.1	$17.\overline{6}$	18:1
		Birth Rate England and Wales		1,149	1,111	1,283	1,052	1,190	1,153	1,214	1,094	1,081	1,168	1,191	1,466	1,370	1,161	1,395	1,657	1,711	1,756	1,992	1,881	1,353
				33.9	33.7	33.5	33.5	32.5	32.4	31.4	30.5	9.08	29.2	31.4	30.5	30.8	9.62	30.3	20.1	29.7	59.4	6.0.3 6.0.3	6.83	31.0
	Births		Rate	33.6	32.1	34.7	31.9	30.s	30.7	31.3	31.3	9.08	28:5	31.3	58.6	29.5	30.5	30.4	30.4	30.4	29.8	59.6	28.3	30.7
-		É	Births	2,019	1,948	2,122	1,968	1,914	1,926	1,979	1,996	1,966	1,848	2,045	1,911	2,015	2,113	2,180	2,859	2,937	2,945	2,995	2,929	2,230
	Year. Population		60,051	60,578	61,105	61,633	62,160	62,668	63,215	63,742	64,270	64,797	65,325	66,650	68,200	70,000	71,750	94,150	96,500	98,950	101,350	103,500	Average 20 years	
	Year. H		1881	1885	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1800	1900	Avera	

NOTE.—The Zymotic Deaths and Death Rates include only the seven principal Zymotic Discases, viz.:—Whooping Cough, Measles, Diarrhea. Diphtheria, Scarlet Fever, Typhoid Fever, and Small Pox.

The following Tables-Nos. 6, 6 A, 6 B, and 6 c-are prepared in accordance with the instructions of the Local Government Board.

TABLE 6.

ALL AGES TT.	Rate.*	12	17.5 18.0 21.5 19.5 16.0 17.3 17.3 17.3 17.3 17.3
DEATHS AT ALL AGES NETT.	Number.	11.	1,137 1,173 1,435 1,435 1,1119 1,615 1,615 1,674 1,615 1,707 1,934
Deaths of	Non- residents registered in District.	10	13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1
	DEATHS IN PUBLIC INSTITU- TIONS.	6	131 200 192 208 175 220 203 248 248 258 258 258
DEATHS AT ALL AGES. TOTAL.	Rate.*	∞	18.2 22.0 22.0 20.1 16.6 19.4 17.8 17.7 19.6 18.1
DEATHS AGES.	Number.	7	1,168 1,191 1,191 1,466 1,370 1,657 1,657 1,992 1,779 1,779
DEATHS UNDER NE YEAR OF AGE.	Rate per 1,000 Births registered.	9	158 153 154 155 155 158 158 158 158 158 158 158 158
DEATHS UNDER ONE YEAR OF AGE	Number.	ភ	239 252 253 317 253 339 429 452 452 448
HS.	Rate.*	4	28.5 30.2 30.4 30.4 30.4 30.4 30.4 30.4 30.4 30.4
BIRTHS.	Number,	က	2,925
	Population estimated to Middle of each year.	2	64,797 65,820 68,200 70,000 71,750 94,150 96,500 101,350
	YEAR.	1	1890 1891 1892 1893 1894 1895 1895 1896 1898 1899 1899 1996-1899

* Rates calculated per 1000 of estimated population.

NOTE.—The deaths included in Column 7 of this table are the whole of those registered during the year as having actually occurred within the district or division. The deaths included in Column 11 are the number in Column 7, corrected by the subtraction of the number in Column 10.

TABLE 6 A.

1				
	Deaths under 1 year.	1111 828	†6	\$3
SHIRLEY,	Deaths at all ages.	323 323 323 323 323 323 323 323 323 323	326	946
	Births registered.	612 612 619 6 4	623	+69
	Population esti- mated to middle of each year.	20,400 21,300 22,300 22,300 23,700	21,975	24,750
	Deaths under I	235511111	29	83
700D.	Deaths at all ages.	250 193 193 193 240 250 250 250	220	227
Portswood	Births registered.	263 272 272 272 301 311 363 479 508 508	8++8	†8†
	Population esti- mated to middle of each year.	9,5×1 9,862 10,400 11,100 12,000 13,000 14,250 16,000 16,000 16,750	15,562	17,500
	Deaths under l year.	883 835 835 835 835	305	305
'n.	Deaths at all ages.	1,005 1,051 1,266 1,198 978 1,186 1,117 1,118 1,184 1,184	1.194	1.247
Town	Births registered.	1,885 1,874 1,740 1,740 1,704 1,874 1,912 1,886 1,886 1,886	1,862	1,751
	Population estimated to middle of each year.	55,216 55,463 57,400 57,000 58,100 58,150 60,000 60,000 60,150 60,500	60,212	61,250
	Deaths under l year.	253 253 253 333 253 457 457	99†	448
DISTRICT	Deaths at all anes.	1,137 1,173 1,435 1,138 1,119 1,615 1,615 1,707 1,934	1,732	1,821
Многе D	Births registered.	1,848 2,045 2,045 2,113 2,113 2,180 2,937 2,945 2,945 2,945	2,934	2.925
W	Population esti- mated to middle of each year.	64,797 65,325 65,325 68,200 70,000 71,750 94,150 98,500 98,500	97.737	103,500
	YEAR.	1890 1891 1892 1893 1894 1894 1896 1896 1898 1898	Averages of Years 1896-1899.	1900

TABLE 6 B.

Cases of Infectious Disease notified during the year 1900.

O TO ALITY.	storicts	mer seast U vedto movi Uslosi vol	0 0 4	12
No. of Cases removed to Hospital from each Locality	Cases imported by vessels.		6 2 2 3	£ 1
	puv a	elrid2 Sinsmeerd ordlliM	5 8	81
OF CA		Portswood Bitterne I		37
No Hospi		.nwoT	11 13 13 14 17 17 17 17 17 17 17	113
NI O	storitets	mer esesO Trentomori Trelesi rol	0 0 4 -	
TIFIEI LITY.	orted els.	Cases imp	37 37 37 37 37 37 37 37 37 37 37 37 37 3	13
TOTAL CASES NOTIFIED EACH LOCALITY.	bas e	Shirley Streemantl Streemantli Streem	1 5 1 2 2 2 2 2 2 2 2 2	137
AL CA EACE	Portswood and Bitterne Park.		8 52 52 61	101
Toı	.nwoT		11 26 36 37 11	596
	-	65 and upw's		l
OLE	ý	25 to 65	9 11 12 14 15 15 15 15 15 15 15	121
IN WH	Year	15 to 25	8 12 8 1 1 1 1 1 1 1 1 1	ខ
CASES NOTIFIED IN WHOLE DISTRICT.	At Ages—Years.	5 to	2 1 1 1 1 1 6 1 1 6 1 1 1 1 1 1 1 1 1 1	0 1 6
ES NOT		1 to 5	5% 1% 1%	- S
CAS		Under 1	- - +	~
		At all ages.	22 1133 1111 1111 5	266
	Notifiable Disease.		dno	:
			us Cr er er ver rever Fever Fever	
	BLE		pox . a . leria . leri	Totals .
	OTIFIA		Small-pox	Tot
<u></u>	Z			

* In addition to these cases: 11 cases of Enteric Fever, 6 Diphtheria, and 1 Erysipelas were isolated in the Royal South Hants and Southampton Hospital.

TABLE 6 C.

	DE	DEATHS IN WHOLE DISTRICTS AT LOCALITIES (AT ALL AGE							TIES	PUBLIC IONS.	
Causes of death.	All ages.	Under 1.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards,	Town.	Portswood.	Shirley.	DEATHS IN PUBI
Small-pox Measles Scarlet Fever Whooping Cough Diphtheria and Membranous Croup Croup Typhus Fever Enteric Other continued Epidemic Influenza Cholera Plague Diarrhœa Enteritis Puerperal Fever Erysipelas Other Septic Diseases Phthisis Other Tubercular Diseases Phthisis Other Tubercular Diseases Phthisis Other Tubercular Diseases Pronchitis Pneumonia Pleurisy Other Diseases of Respiratory organs Alcoholism Cirrhosis of Liver Venereal Diseases Premature Births Diseases and Accidents of Parturition Heart Diseases Accidents Suicides All other causes	51 21 19 24 2 13 52 — 48 42 — 5 1 149 48 79 174 125 3 15 25 79 6 171 46 7 629	14 - 8 1 2 - 41 27 - 2 2 22 - 44 25 5 79 - 164		7 1 1 1 10 1 1 2 3 8 1 1 10 10 1 1 1 1 1 1 1 1 1 1 1				$\begin{array}{ c c c c c }\hline & & & & & \\\hline & & & & \\\hline & & & & \\\hline & & & &$	$ \begin{array}{c c} -5 \\ -2 \\ 10 \\ 1 \\ -2 \\ -10 \\ -2 \\ -2 \\ -1 \\ 11 \\ 2 \\ 19 \\ 1 \\ 179 \end{array} $	$\begin{array}{ c c c c }\hline & & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & \\ & & \\ & & \\ \hline & & \\ & & \\ & & \\ & & \\ \hline & & \\ & & \\ & & \\ & & \\ \hline & & \\ & & \\ & & \\ & & \\ \hline & & \\ & & \\ & & \\ & & \\ & & \\ \hline & & \\ & & \\ & & \\ & & \\ \hline & & \\ & $	11
All causes	1,820	446	180	57	59	600	478	1247	227	346	240

TABLE 7.

The total Deaths from Zymotic Diseases during 1900 amounted to 232, 50 being of a notifiable and 182 of a non-notifiable character, against totals of 329 in 1899 and 288 in 1898.

	1896	1897	1898	1899	1903
Small Pox Scarlet Fever Diphtheria Membranous Croup Enteric or Typhoid Fever. Continued Fever Erysipelas Puerperal Fever Measles Whooping Cough. Influenza Diarrhœa and Dysentery Malarial Fever Pyæmia and Septicæmia Syphilis Febricula Vaccina Varicella Other Zymotic Diseases	1 39 6 3 13 0 6 5 62 22 5 0 0 1 1 2 0 0	0 11 9 1 6 1 1 1 47 61 17 80 2 2 4 0 0 0	0 3 54 4 23 0 2 1 16 26 15 134 2 3 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 50 2 20 0 4 1 31 40 22 153 0 1 3 0 0 1	1 2 26 1 1 15 26 1 1 26 1 1 26 26 26 26 26 26 26 26 26 26 26 26 26
Totals	218	243	288	329	232

 TABLE 8.

 COMPARATIVE MORTALITY OF SOUTHAMPTON AND 42 TOWNS.

BOROUGH.	Estimated Population 1900.	Birth Rate.	Doath Rate.	Zymotic Death Rate,	Infantile Mortality. Deaths under 1 year per 1,000 Births Registered.	Average Death Rate— 10 years, 1890-1899.
Aston Manor	80.497	31. 2	15: 8	3. 4	167	15:8
Birkenhead	1 11 7 1 70	29. 2	16: 7	1 i 7	158	18.9
Birmingham	F10 (110	32. 7	21. 0	2. 7	199	20.4
Bolton .	104040	29. 0	19: 5	2. 3	170	21.8
Bradford	001 505	23. 0	16: 3	1. 3	140	19.1
Brighton .	124,148	23. 6	17. 8	2.25	166	17:3
Bury	61,765	22. 5	17: 7	2. 1	171	21.4
Cardiff .		26. 8	13: 7	2. 1	140	17.7
Coventry .		31. 0	16. 8	2. 3	131	17:3
Croydon .		24. 9	14. 6		132	15.1
Derby		26. 8	17. 1	2.3	174	17.1
Dudley	7 (16) 1 (10)	32. 8	20. 4	5: 8	197	20.6
Gateshead	303 305	36: 4	19. 2	1: 7	167	19.8
Halifax	61 (00)	22· 8 37· 6	18. 1	1· 2 3· 9	135	18:9 20:4
Hanley Huddersfield	1 201 401	22. 8	22· 0 16· 8	1. 2	209 132	17:3
751	1 0 10 007	32. 6	19. 2	2. 9	180	17.4
Kingston-on-Hull	1 402 305	30. 5	20. 1	ş. 0	183	20.4
Liverpool	668,045	34. 0	23. 6	3. 7	136	24.7
Manchester	- m par 1	31.38	$\frac{23.42}{23.42}$		185.74	23.3
Middlesborough	07.07	34.46	24.81	1. 6	198	20.3
Newcastle-on-Tyne.		30. 4	19: 1	1. 3	169	20.6
Newport, Mon	778 (111)	23: 6	16: 7	2. 4	170	17.8
Northampton .	69,242	22. 3	13. 7	3. 4	144	15.5
Nottingham .	212,676	27: 3	19: 1	2. 3	196	18.4
Oldham .	153,297	24. 1	19: 5	2. 4	172	21.1
Plymouth .		27. 8	20. 5	2. 2	174	20.2
Reading .	. 72,328	26: 1	14. 2	1. 7	144	15.1
Rhondda	THE WAY	34. 6	16: 9	3. 7	186	18.9
Rochdale .	0000000	23· 9 33· 0	20. 2	1· 3 4· 0	167 208	19·1 24·2
Salford .	0.022.000	34.36	25 1	4. 5	208	21.4
	1400 ~ 00	28.3	17. 6	1. 2	152	18.0
Southampton .	Tariana.	18: 5	15: 0	0:61	194	16.6
Southport . South Shields .	1 30-0-	32. 9	19. 4	2.1	160	19.3
St. Helens .	NO 400	35. ()	21. 6	3. 0	188	21.4
Stockport .	0 . 4.10	27. 8	21. 4	2.6	203	$\frac{52.6}{2}$
Stockton-on-Tees .	Process as the	30. 0	17· i	1. 6	1/1	17:9
Sunderland .	1 1 4 7 10 10 1	35. 6	21. 4	2. 9	169	21.7
West Bromwich .	. 64,000	35. 0	19° 8	2. 5	196	19.1
West Ham .		30. 2	17: 5	3. 6	192	19:3
Wolverhamptom .		35. 5	22. 3	4. 4	207	21:5
Warrington .	. 65,000	36. 7	19. 4	2. 5	162	2 ::9
	1	1				1

TABLE 9.

TABLE SHOWING ALL DEATHS CCCURRING IN THE BOROUGH OF SOUTHAMPTON DURING THE YEAR ENDING 31ST DECEMBER, 1900, CLASSIFIED ACCORDING TO DISEASES AND AGES.

		39,			
	Totals,	282 10 10 237 933 73 85	1881	231 182 3253 123 41 41 8	933
.X.	Females.	119 1147 1135 135 14 14	891	115 146 146 146 172 173 174 175 175 175 175 175 175 175 175 175 175	439
SEX.	.zəl£M	113 102 494 59 59	066	116 179 179 22 28 28 29 29 11	484
	Total over 5 Years.	98 10 10 149 675 56 56	1251	148 178 178 10 20 40 9 9 9 8	675
	95 and upwards.	: : : : গ : : : :	21		:
	223	* ::: : : : : : : : : : : : : : : : : :	\$5. \$4.	4 : N4 : : : : : L	1
	13 8 13	° :- 1851 :: ° :	385	2: 22: 52: 23: 23: 23: 23: 23: 23: 23: 23: 23: 2	06:
	5 2 12	11 :: :5883	243	# :#:# : H : : :	160
	13 8 8	: ::::::::::::::::::::::::::::::::::::	1:2	%: : # # # # # # # # # # # # # # # # # #	131
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AG	## ## ## ## ## ## ## ## ## ## ## ## ##	2 :8:5 :87 :	169	1: 25 10 10 10 10 10 10 10 10 10 10 10 10 10	Œ
	25 55 35	01 :42 :3 :4 c :	121	: H+10: 0:00:00:00:00:00:00:00:00:00:00:00:00	87
	15 15 25 25	+ :: 53 :: 52 :: +	65	0 : : : : : : : : : : : : : : : : : : :	25.
	5 to	8::#:8* :	き	+mmn = + : : : : :	33
	Total under 5 years.	25 2588 45 17 25 134 134 134 134 134 134 134 134 134 134	138	32 4 113 113 123 133 133 133 133 133 133 133	258
	- 5 rc	85 :: : : 21 8 S S S S S S S S S S S S S S S S S S S	1:2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	87
	- t t c -	18 : : : : : : : : : : : : : : : : : : :	\$#	80 24 85 E : : : : : : : : : : : : : : : : : :	171
DISEASES CLASSIFIED.		CLASS I.—ZYMOTIC DISEASES II.—PARASITIC DISEASES III.—DISTETIC DISEASES IV.—CONSTITUTIONAL DISEASES V.—DEVELOPMENTAL DISEASES VI.—LOCAL DISEASES VII.—DEATHS FROM VIOLENCE VIII.—DEATHS FROM ILL-DEFINED OR NOT SPECIFED CAUSES	Totals	* Class VI.—Local Diseases. - Diseases of Nervous System Circulatory System Circulatory System Digestive Lymphatic Lymphatic Lymphatic Reproductive Reproductive Integumentary	Totals
		'		1.9 × + 19 0 1.9 9 9 0 0	

TABLE IX.-CONTINUED.

	Totals.	- 23 - 12 - 12 - 12 - 12 - 12 - 12 - 12	1C L
.x.	Females.	2 2 1 12 6 6 6 13 11 13 30 11 11 11 11 11 11 11 11 11 11 11 11 11	m :
SEX	Males.		87
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	15 15	[127757 18 1 1 1	::
	Total under 5 years.	:-12:-42::n	ю <u>:</u>
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DISEASES CLASSIFIED.		to Diseases. roup roup roup ret al Diseases. biseases. biseases.	Diseases. ilis iricture of Urethra) Parasitic Diseases.
		Class I.—Zymotic I Group 1.—Miasmatic Diseases. Small Pox Scarlet Fever Diphtheria Membranous Croup Enteric Fever Masles Whooping Cough Malarial Fever Blackwater Fever Influenza Mumps Tetanus Tetanus Group 2.—Diarrhwal Diseases. Diarrhea and Dysentery Croup 3.—Septic Diseases. Erysipelas Septicæmia	Group 4.—Penereal Diseases. Inherited Syphilis Gonorrhœa (Stricture of Class II.—Parasiti

TABLE IX.—CONTINUED.

	TOTALS,	10		\$5.58±80±6±6±6000±
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	Total under 5 years.			4.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	DISEASES	Class III.—Dieteti	Class IV.—Constituti	Phthisis Tuberculosis (general) Tubercular Meningitis Tubes Mesenterica Cancer Tumour Rheumatism Rheumatic Fever Rheumatic Gout Rheumatic Gout Rheumatic Marchritis Parches Mellitus Diabetes Mellitus Chill Chill

TABLE IX.-CONTINUED.

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	TOTALS	149 79 1	242 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
SEX.	Females.	38 33	5 5 6 4 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6
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	DISEASES	-De	Class VI.—Local I.—Diseases of the N lexy ning of Brain ysis plegia ulsions ulsions ningitis ppy phalitis ppy phalitis prosis of Spinal Cord ditary Ataxy agismus Stridulus ocephalus pral Cyst oral Abscess
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		Class V.—Developme Old Age Premature Birth Spina Bifda Cleft Palate Other Malformations	Class VI.—Local Group 1.—Diseases of the N Apoplexy Softening of Brain Paralysis Hemiplegia Convulsions Meningitis Epilepsy Encephalitis Epilepsy Encephalitis Solerosis of Spinal Cord Hereditary Ataxy Chorea Laryngismus Stridulus Hydrocephalus Multiple Neuritis Laryngismus Stridulus Hydrocephalus Cerebral Abscess Cerebral Abscess
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	DISEASES CLASSIFIED	Group 2.—Diseases of Organs of Stecial Sens (a) Eye— Opthalmia Neonatorum (b) Ear— Otorrhœa Group 3.—Diseases of the Circulatory System Heart Disease Syncope Endocarditis Pericarditis Aneurysm Embolism Angina Pectoris Angina Pectoris Aneurysm Embolism Angina Pectoris Aneurysm Empolism Angina Pectoris Aneurysm Angina Pectoris Aneurysm Angina Pectoris Aneurysm Angina Pectoris Bronchitis

C)

Females. SEX. :0000 :00/co--Males. Years Total over :46x518x7£ CJ nbwards. : : : bas 58 8228 82 34 212 83 ଠା 55 55 AGES. 3:0 유 다 당 다 당 32 23 : : : 32 23 品はい 5 years. Total under - 910 0 2-: Group 6.—Diseases of the Lymphatic System and Group 5.—Diseases of the Digestive System.

Dentition ... : DISEASES CLASSIFIED. Stricture of Œsophagus : intestinal Obstruction Cynanche Trachealis "Disease of Liver" Addison's Disease Ductless Glands. Cirrhosis of Liver Gastro-Enteritis Intussusception Hæmatemisis Appendicitis Peritonitis ... Gall Stones ... Tonsillitis ... Gastritis ... Gastric Ulcer Enter-Colitis Constipation Enteritis Hepatitis aundice Ascites Hernia

TABLE IX.—CONTINUED.

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DISEASES CLAS		Group 7.—Diseases of the Uridary Acute Nephritis Bright's Disease Uræmia Hydronephrosis Cystitis Renal Calculus Extravasation of Urine	Group 8.—Diseases of the Repr (a). Male Organs— Prostatitis (b). Female Organs. Child Birth Puerperal Convulsions Metritis	Group 9.—Diseases of the Osseous System. Necrosis of Bone Inflammation of Tibia Epiphysitis	Group 10.—Diseases of the Int Gangrene Cellulitis Pemphigus Erythema Eczema
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DISEASES CLASSIFIED.		Deaths from Violent or Negligence.	Overlaid	Group 2.—(a) Murder— Illegal Operation Cut Throat "Wilful Murder"	Group 3.—Suicide— Hanging Poison Cut Throat Shot Gas Poisoning	Class VIII.—Deaths from ill-defined or not specified causes. Debility, Atrophy, and Marasmus

TABLE 10.

SHOWNG MARRIAGE RATE, EIRTH RATE, DEATH RATE, ZYMOTIC DEATH RATE, AND INFANTILE MORTALITY FOR THE BOROUGH AND ITS VARIOUS DISTRICTS, FOR THE YEAR 1900.

District.	Marriage Rate.	Birth Rate.	Death Rate.	Zymotic Death Rate.	Infantile Mortality (Deaths under One Year per 1(0)) Births registered).
Whole Borough	16· 3	28:30	17:59	1.51	152:3
Town Proper	20 47	23.58	20,36	1:76	174·2
Portswood and Bitterne Park Shirley, Freemantle and	8:68	27:65	12:97	1:31	109:5
Millbrook	11:31	25.04	13.99	1:09	126°8

TABLE 11.

SHOWING NUMBER AND DESCRIPTION OF CASES OF INFECTIOUS DISEASE OCCURRING IN THIS BOROUGH NOTIFIED TO THE MEDICAL OFFICER OF HEALTH IN EACH OF THE FOUR QUARTERS OF 1900.

CASES IMPORTED BY VESSELS AND REMOVED FROM OTHER DISTRICTS FOR ISOLATION HAVE BEEN DEDUCTED FROM THIS TABLE.

DISEASES.		Quarter	Total for	Mortality for		
DISEASES.	March 31st	June 30th	Sept. 30th	Dec. 31st	Year.	Year.
Small-Pox Diphtheria Membraneous Croup Erysipelas Enteric or Typhoid Fever Puerperal Fever Scarlet Fever		$ \begin{array}{r} 11 \\ 29 \\ \hline 16 \\ \hline 10 \\ \hline 35 \end{array} $	$\frac{-\frac{1}{42}}{14}$ $\frac{33}{70}$	$ \begin{array}{r} $	11 129 1 63 77 223	$ \begin{array}{c c} & -24 \\ & 1 \\ & 5 \\ & 13 \\ & -2 \end{array} $
Totals	1. 7	101	159	137	501	45

TABLE 12.

SHOWING ALL DISEASES NOTIFIED DURING THE PAST NINE YEARS, AND THE NUMBER OF THEM ADMITTED TO HOSPITAL.

1900.	.enoissimbA	27 25 27 27 27 27 27 27	256
61	Notifications.	118 86 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	506
1899.	·snoissimbA	111 11 1 1 2 1 1 1 1	115
18	Notifications.	190 190 183 183	555
ž	.enoissimbA	72 18 18 1 1 1	196
1898.	Notifications.	11 12 14 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(32
7.	.snoissimbA	- 	151
1897.	Notifications.	F E 2 E E E E 1	426
); ;;	.enoiseimbA	11	281
1896	Notifications.	e 5 2 2 2 2 x	1140
1895.	.enoissimbA	9 1 1 26 1 1 1	204
185	Notifications.	35.52 33 39 6 6 1 1 + 55.52 33 39 1 6	516
±.	.enoissimbA	* - - -	29
1894	Notifications.	39 14 14 15 15 15 15 15 15	281
.ë.	.enoissimbA	25 2	156
1893.	Notifications.	25 12 25 16 17 17 17 17 17 17 17	1 64
27.	.enoissimbA	72	7.5
1892.	Notifications.	1 2 & 2 2 5 4 1	238
	DISEASES.	Small Pox Cholera Diphtheria Membranous Erysipelas Scarlet Fever Typhoid Fever Puerperal Fever Measles Lymphangitis	Total

* Includes 27 cases admitted from outlying districts.

TABLE 13.

VACCINATION RETURNS FOR TOWN PROPER.

Years.	Births.	Successfully Vaccinated.	Died Un- vaccinated.	Insusceptible to Vaccination.	Postponed and whereabouts unknown, or removed to other districts and exempt under Sec. 2 Vaccination Act, 1898.	Total.
1888	1710	1391	144	1	174	1710
1889	1660	1272	138	1	249	1600
1890	1585	1263	143	3	176	1585
1891	1714	1365	157	, 4	188	1714
1892	1646	1312	178	8	147	*1646
1893	1701	1391	173	17	115	1701
1894	1796	1484	181	30	101	1796
1895	1874	1552	205	17	100	1874
1896	1912	1570	231	18	93	1912
1897	1886	1566	194	15	111	1886
1898	1847	1471	213	19	144	1847
1899	1802	1391	240	12	159	1802

^{*} One Child had Small Pox.

TABLE 14.

ABSTRACT FROM THE METEOROLOGICAL REGISTER KEPT AT THE ORDNANCE SURVEY OFFICE, SOUTHAMPTON,

DURING THE YEAR, 1900.

	REMARKS		•	
ED VE.	,	Dato	18, 25 16, 25 17, 21 20, 21 12, 21 12, 13 3, 21 10, 13	10 July
RECORDED SUNSHINE.		Maximi od 10.0V	600 600 600 600 600 600 600 600 600	14.4
SC		Total Xornstruct	4998-0-1091-0-1091-0-10-0-10-0-10-0-10-0-	1696-2
	10 1	b lo oN bidw no or more	20 20 10 10 10 10 10 10 10 10 10 10 10 10 10	180
ALL,		Date.	956 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	ger Jan.
RAINFALL	uț 1	oirord Viitarup mod 42	1.195 0.382 0.455 0.657 0.617 0.520 0.520 0.740 1.010	1.195
		i latoT enionI	3.23 11.172 11.876 11.669 11.669 11.077 11.077 11.077 11.057 11.057	31.544
		.eta.	6 9 18 18 13 11,25 11,25 111	9 Feb.
		Lowes	0 0101018.4444.48.09.09.09.09.09.09.09.09.09.09.09.09.09.	21.6
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y	Mea	9 a m.	Deg. 321.1. 38.1.1. 38.2.1.1. 38.2.1.1. 38.2.2.2.1.1.3.2.2.2.3.3.3.3.3.3.3.3.3.3.3	52.3
UCED L.		Date.	2000 100 100 100 100 100 100 100 100 100	19 Feb.
& REDUCED. LEVEL.		uminiM nibs9A	In cb. 129 - 238 -	28-533
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TER	at.		Inch. Inch. Inch. Inc. 29-5-8 29-5-8 30-4 29-5-8 29-5-8 30-4 29-5-8 29-5	944 3
OME O 32		9 a.m. 9 p.m	Inch. Inch. 29-5-82 29-5-50 29-5-82 29-5-50 30-025 29-99- 29-952 29-99- 29-97-99-98- 30-026 30-024 30-06 30-024 30-06 30-024 30-06 30-024 30-06 30-024 30-06 30-024 30-06 30-024	1 29
BAR	Mean	9 a.n	# <u>8886888888888888</u>	29-93
	1,000		January February March April May June June July August September October November December	For the year

This Table has been supplied by the courtesy of Col. Duncan A. Johnson, R.E., Director-Seneral of Ordnance Survey.

APPENDIX B.—CONTENTS.

The Borough Analyst's Report for the Year ending December 31st, 1900.

ANALYST'S DEPARTMENT.

ANNUAL REPORT

For the Year ending 31st DECEMBER, 1900.

To the Worshipful The Mayor, Aldermen, and Councillors of the County Borough of Southampton.

GENTLEMEN,

I have the honour to submit for your information an account of the work done in this department during the past year.

SECTION I.

SALE OF FOOD AND DRUGS ACT, 1875.

The number of samples submitted under the above Act during the year 1900 was two hundred and sixty-three.

Of this number two hundred and eight samples were submitted by Inspectors, thirty-three privately, and twenty-two from the Borough of Newbury.

The character of the samples, the number of each article submitted, and the number and per centage of adulterated samples are given in the following table:—

TABLE I.

Character of A	Article.	Number of Samples.	Number of Samples Adulterated.	Per Centage of Adulterated Samples.
Baking Powder Beer Butter Cream Coffee Flour Lard Margarine Milk Condensed Oil, Olive Sugar Whiskey Wine		2 26 68 2 27 2 1 2 124 4 1 1 2		7:35
Totals		263	21	7:99

The details as to the adulterated samples and the proceedings taken, and the result in each case, are given in Table II.

TABLE II.:

Article Analysed.	No. on	Nature and Amount of Adulteration.				Proceedings taken.	Res	sult.
Analysed.	Register	· Adulteration.			taken.	Fine.	Costs.	
Butter		Adulterate				Summoned	20/-	13/-
,,	122	1)	no but	tter f	at	٠,	40/-	-12/6
,,	125	٠,	••	,,		,,	200/-	-10/6
,,	167	,,	,,	,,,		,,	30/-	17/-
,,	172	,,	,,	,,		31	Dism	
							App	
Milk	29		43°/, fa			,,	10/-	-10/6
,,	51		$2^{\circ}/_{\circ}$ ad			none	_	_
,,	86		10 °/ fa 10 °/ _o ao			Summoned	10/-	8/6
,,	136					Test Sample		_
,,	140		2 ''/5	12	•••	none		
,,	162	. ,,	26%	,,		,,	_	
,	168	,,	11 4/5	"	,,	Summoned	100/~	11/6
,,	8p.		20 °/5 and olei	um s	antali	Private	_	_
,,	12p.		10°/ _o ac			.,,	·	_
,,	13p.	,,	5 °/5	٠,	,,	,,		_
] ,,	15p.	,,	; 6/3.	,	,,	,,		_
,,	24p.	,,	2 %	٠,	,,	,,		- 4
,,	25p.	,,	$10^{-9}/_{\odot}$,,	,,	,,	- 1	1
	•						-	

The total fines and costs during the year amount to £24 13s, 6d.

The number of samples analysed during the year is fifty-three more than in 1899.

BUTTER.

Sixty-eight samples, or eight samples more than in 1899, were analysed, and five samples were adulterated.

These figures confirm the statement contained in last year's report "That the solitary sample found to be adulterated out of sixty samples" did not represent the actual condition as to the sale of adulterated butter.

By continued and careful watching some of the offenders who systematically sold an adulterated article in such a manner as to avoid detection, have been ultimately brought within the operation of the law and severely punished. In the worst of these cases an attempt was made to wriggle out of the consequences.

A certificate from another analyst was put in which certified that the sample was genuine.

This the Magistrates did not accept, and fined the offender \pounds to and costs.

Subsequently the Analyst concerned applied to me for a sample of the butter I had analysed.

The portion retained by the Inspector was forwarded to him and also a similar sample in a second case against the same vendor (withdrawn), and in both cases he found the articles to be adulterated and confirmed your Analyst's certificate.

In this case also communication with the Board of Agriculture led to important assistance being received from their Inspector who traced the adulterated article from the manufacturer who sold it as margarine, to the Vendor who sold it as butter.

During the time dealers in this article were under surveillance by the Inspectors, a complaint was received through the Local Government Board from the Irish Butter Association, as to the sale of an adulterated article in Southampton contrary to the Margarine Act.

In the case of sample No. 172 the Magistrates dismissed the case on a technical point as to purchase. An appeal has, I understand, been entered against this decision.

MARGARINE.

Under the new Margarine Act it is not only an offence to sell margarine for butter, but it is also an offence to sell margarine containing more than ten per cent. of butter fat. Hence a butter may be adulterated and also not legally margarine, and it becomes necessary to state on the Certificate whether it is margarine, and also whether it is illegal margarine containing more than ten per cent. of butter fat.

MILK.

The number of samples analysed is one less than in the year 1900.

There is a marked decrease in the per cent. of adulterated samples during the year.

Per centage of adulterated samples:—

1896	1897	1898	1899	1900
5.43%	18.6%	20.16%	21.13%	12.03%

The increase in the per centage of adulterated samples is also at an end, and a considerable decrease has taken place since 1899.

Per centage of adulterated samples and their source:—

			Inspectors'.		Private.
1897	•••	•••	7.01%	•••	23.08%
1898	•••	•••	13.02%	•••	33.33%
1899	•••	•••	7.08%	•••	61.39%
1900	•••	•••	7.95%	•••	30.77%

COMPOSITION OF MILK SUPPLY.

The average composition of the milk has been higher than in any previous year. The composition of the samples returned as genuine was:—

Year	 1897.		1893.		1899.		1900.	
Source	 Inspectors	Private	Inspectors	Private	Inspectors	Private	Inspectors	Private
Total solids	 12·71 3·92	12.19 3:54	12·56 3·87	12 [.] 33 3.60	12·72 4·00	12·93 4·15	12·91 4·30	12:66 3:95

The general average of genuine samples was :-

		1897	1898	1899	1900
Total solids	•••	12.59%	12.20%	12.74%	12.09%
Fat		3.83%	3.79%	4.02%	4.24%

The average for adulterated samples for the three years 1898, 1899 and 1900 was:—

	189	98.	189	99.	1900.	
	Inspectors	Private	Inspectors	Private	Inspectors	Private
Total Solids	11:08 2:97	10·63 2·73	11·41 3·06	11·46 3·66	10·28 2·85	11·29 3·25

The accepted average total solids for genuine milk is 12.5% The general average quality of the milk supply of Southampton during 1900 was three-and-a-half per cent. above the accepted average. Although many of the samples returned as genuine are of extremely doubtful purity.

The remaining articles do not call for comment.

SECTION II.

GENERAL.

A .- For Corporation.

B.—Private Analyses.

A.

The various departments for which analyses, etc. have been made and the number and nature of the samples are given below, viz:—

BATHS COMMITTEE-

River Water

BOROUGH ENGINEE	r's Def	ARTMENT-							
Mortar	•••			51	7				
Water				2 1	/				
Medical Officer's Department—									
Effluents	•••			7)					
Experiments re	Tip on	Western Shore		2 {	117				
Water				108)					
Waterworks Depa	RTMENT	<u> </u>							
Experiments re	Waste			4)					
Soap Solution		•••		2 {	IOII				
Water for Hard	lness			1005					
Gas Examinati	ons				4				
		m							
		T	otal		1141				

BATHS COMMITTEE.

The samples were examined to find the cause of the water turning muddy in appearance on passing steam into it and raising its temperature.

The change was found to be due largely to a rapid development of the vegetable germs, especially algæ and confervæ.

BOROUGH ENGINEER'S DEPARTMENT.

The samples of water submitted were for the information of Mr. Tyndale in connection with the enquiry he conducted for the Corporation.

The results in the case of the samples of mortar have been reported by Mr. Bennett to Committee, and dealt with.

MEDICAL OFFICER'S DEPARTMENT.

The water analysed for this department is from three sources, viz.:—The Borough Supply, the ships frequenting the port, and from wells.

The purity of the Borough supply has continued to be of the highest possible standard during the year. The softening has been carried out satisfactorily, both at Otterbourne and by the South Hants Company.

The supply from the latter source is, however, always more or less turbid. This turbidity is due to a varying quantity of calcium carbonate, precipitated in softening, remaining in suspension.

The samples from ships and wells the Medical Officer will deal with in his annual report.

WATERWORKS DEPARTMENT.

Experiments have been made during the year with the object of finding a use for the large quantity of precipitate obtained in softening. These experiments are at present in abeyance.

The average hardness of the water supply for 1900 is shewn below:-

		Hardness.				
Source.		Highest.	Lowest.	Average.		
Laboratory Tap Tap at Bitterne Tap at Shirley	••	16·38° 14·66° 11.37°	3:00° 5:53° 5:76°	6-99° 8-73° 8-34°		

Total samples, etc., dealt with during the year 1900, were: FOOD AND DRUGS-

I OOD AND DROOM	,					
Corporation	n			208		
Private	•••			33		
Newbury	•••			22-	— 2	63
GENERAL ANALYS	es, &c.—					
Corporation		•••	•••	1141		
Private	•••		•••	47-	—I I	88
					_	_
	Total for	year	•••		14	51
Fees received fo	or private	analyses		£68	18	6
Fees outstandin			1900	£ 34	15	0
	_	Gentlemen				
	,					

Your obedient servant, J. BRIERLY,

Borough Analyst.



